<u>Claims</u>

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1. A method for treating a dilatation of a body, including the steps of:

inserting a catheter into a localized region of said body;

exuding from said catheter a substance capable of perfusing into at least some tissue in said localized region;

allowing said substance to perfuse into a tissue of said localized region;

emitting from said catheter energy of a frequency and in an amount effective to cause a temperature change in said substance;

whereby, at least some tissue in said localized region is treated.

- 2. A method as in claim 1, wherein said localized region includes a lumen or sphincter.
- 3. A method as in claim 1, wherein said localized region includes cancerous, engorged, inflamed or infected tissue.
- 4. A method as in claim 1, wherein said localized region includes an aneurysm, a blocked lumen, a stenosed lumen or a constricted lumen.

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5. A method as in claim 1; wherein said localized region includes a cyst, tumor or wart.

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- 6. A method as in claim 1, wherein said localized region is associated with a body system, said body system including a blood vessel, lung tube, lung pocket, gastrointestinal system, urogenital system, nerve or nerve sheath.
- 7. A method as in claim 1, wherein said localized region is associated with a particular organ including a kidney, prostrate, retinal lesion or skin lesion.
 - 8. A method as in claim 1, wherein said exuded substance includes a saline solution.
 - 9. A method as in claim 1, wherein said exuded substance includes a nontoxic foam.
 - 10. A method as in claim 1, wherein said exuded substance includes a collagen.
 - 11. A method as in claim 1, wherein said exuded substance includes a bioactive substance, said substance including a drug or enzyme.
 - 12. A method as in claim 1, wherein said exuded substance includes a chemoactive substance including an acid, lipid-breaker or soap.
- 13. A method as in claim 1, wherein said exuded substance includes an instrumentative substance including a florescent or x-ray marker.
 - 14. A method as in claim 1, wherein said energy is emitted by electrical contact.

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- 15. A method as in claim 1, wherein said emitted energy includes RF (monopolar or bipolar), microwave or laser.
 - 16. A method as in claim 1, wherein said emitted energy includes ultrasound.
- 17. A method as in claim 1, wherein said emitted energy includes physical heating or cooling.
- 18. A method as in claim 1, wherein said treatment includes shrinkage of said lumen or said sphincter to a selected dimension.
- 19. A method as in claim 1, wherein said treatment includes shrinkage of said lumen or said sphincter to a substantially normal dimension.
- 20. A method as in claim 1, wherein said treatment includes shrinkage of said engorged or inflamed tissue by removal of lipids or water.
- 21. A method as in claim 1, wherein said treatment includes shrinkage of said engorged or inflamed tissue by removal of an ablated tissue or a dead cell matter.
- 22. A method as in claim 1, wherein said treatment includes shrinkage of said engorged or inflamed tissue by removal of infection products.

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- 23. A method as in claim 1, wherein said treatment includes destruction of a damaged or a diseased tissue.
- 24. A method as in claim 1, wherein said treatment includes promotion of epithelial 5 growth.
 - 25. A method as in claim 1, wherein said treatment avoids local nerve centers.
 - 26. A method as in claim 1, including an additional step of isolating said localized region using a structure inserted as part of said catheter.
 - 27. A method as in claim 26, wherein said inserted structure includes an occluding balloon.
 - 28. A method as in claim 26, wherein said inserted structure includes a space-filling balloon with a lumen through it.
 - 29. A method as in claim 1, wherein said catheter includes instrumentation used for feedback.
 - 30. A method as in claim 29, wherein said feedback includes surgical visualization provided by a camera, RF energy, x-rays, florescence or ultrasound.

- 31. A method as in claim 29, wherein said feedback includes systemic, comprising measurement of pH, pressure or temperature.
- 32. A method as in claim 29, wherein said feedback includes monitoring for said
 5 treatment, including an element for determining a location of a specified tissue element to be treated.
 - 33. A method as in claim 29, wherein said feedback includes monitoring for said treatment, including pacing.
 - 34. A method as in claim 1, wherein said exuding and perfusing includes a physical method of delivery.
 - 35. A method as in claim 34, wherein said exuded and perfused substance includes included in a saline solution or nontoxic foam.
 - 36. A method as in claim 34, wherein said physical method of delivery includes a porous balloon, a microporous balloon, or a balloon with a porous or microporous membrane.
- 20 A method as in claim 34, wherein said physical method of delivery includes direct emission from said catheter.
 - 38. A method as in claim 34, wherein said physical method of delivery includes a local structure, comprising an absorbable basket or a stent.